

OIPE

## RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/849,529

TIME: 15:36:40

Input Set : D:\Pa\_00349.rpt

Output Set: N:\CRF3\07242001\I849529.raw

B1-2, 4-5

Ct->  
Ct->

1 <110> APPLICANT: Fincher, Karen L.  
 2 Ziegler, Todd E.  
 4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With  
 5 Plants  
 7 <130> FILE REFERENCE: 38-21(51893)B  
 9 <140> CURRENT APPLICATION NUMBER: US/09/849,529  
 9 <141> CURRENT FILING DATE: 2001-05-07  
 9 <150> PRIOR APPLICATION NUMBER: US 60/196,868  
 11 <151> PRIOR FILING DATE: 2000-05-09  
 13 <160> NUMBER OF SEQ ID NOS: 24076  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 592  
 17 <212> TYPE: DNA  
 18 <213> ORGANISM: Gossypium hirsutum *2201 insert this mandatory*  
 20 <220> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A1  
 22 <400> SEQUENCE: 1  
 24 ccaagcaagt ttggagaagt tctcaagcgc tactaatcca gatgttgttg aacagagtct 60  
 26 gaatagtttg gctgagaagg caaacaaga gatggcctcg gcagtgaata gctcggcaga 120  
 28 gaagatgaag aacgagatgg ccattgacagt aaatagctcc actgaggaga tgaaaaagaga 180  
 30 gacaacttca ataaaagagct cagcggagaa gatgaacaaa gagacagcct tgaataataa 240  
 32 taactcagct gagaagatga agaaaqaaa atcattaaat agctcagctg agaagatgag 300  
 34 acaagagaca gctgcagaaa atggttcagc tgaagaagatg aagaaagaga cagccttgac 360  
 36 agtaaatatc tcagctgaga agatgaacaa aqagacagcc ttgacaataa ataactcagc 420  
 38 tgaagaagatg aacaaagaga tggccaggac agtgaatagc tcagctgaga agatgaagaa 480  
 40 aagagacagct acagttaatt gctcggtctg gaagatgaag aagagagcgg ccttgacagt 540  
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 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 531  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Gossypium hirsutum *same line*  
 50 <220> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A10  
 52 <400> SEQUENCE: 2  
 54 cccacgcgtc ccccacgcg tccgcqaaa aaaaqqgat qqqctctca ctttctattt 60  
 56 ttactccttt ttattacatg ccaqtttqca tccagttatc aqctcattt atgttatttg 120  
 58 qatttttttt tttaattttg ataattttga cattacttaq attcctgaca ttatatttat 180  
 60 aataactttg atatttttaa aaaaaatta aacgcatttg aaattattaa tctgatgatt 240  
 62 cccaccattc accgtatggt acatatgctg ttgtcgtgct ggcacattgc cattgqttga 300  
 64 cattgtttta atattaatat tttaatttaa catcaacctt ttttqtaaaa cttaaatttg 360  
 66 ttcaaaaaatc ttatttttta aattgtattt aatattttcc attttcgtta cttttttagt 420  
 68 qttttatttt ccacactgaa atcttttqct ttgtctgata aaatttccca aaatqgttag 480  
 70 ttttttttca aaatttcatt atttttataa atatactaac ccaatagata t 531  
 73 <210> SEQ ID NO: 3  
 74 <211> LENGTH: 531

*sequence identified when sent 2-17-2002*  
*2-20-02*  
*in return*  
*1/20/02*

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82 cccacgcgtc cgtcagatt ttctctcagt qtttaatagt gaaacgatgt ccactgtcgg 60
84 aagaagctgt tgetcttaag ctgetcttat tctttatgat gatggcatcc ccacacccgc 120
86 tgagaagatt tctacactag ttaaaagctgc aaatgtctct gttgaatcct actggccaa 180
88 cttgttccgt aagctttttg agaagtgcac cattgaggat ctcataacca atgttgagg 240
90 tgggtgtgtt ggtgccccag tagctgcagc tgcacctgtt gctgctggcg gaggagccg 300
92 tgetctgtct ccacctcttg ctgaggaaaa gaaggaagaa ccggaggaag agagtgatga 360
94 cgatctgga ttcaagttgt ttgattaggt qtgttttgg caattactag ttatatcaca 420
96 tgaaggtagt aacgctttta gatttgtatt gctatlggt tttgcattgt gattagaaat 480
98 attacgtttt tgttgaatga aagttgacac taagtagctc tttctttgtg atctgttttt 540
100 ttgaatctt cctatatata gaagtattat aqattcta 578

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103 &lt;210&gt; SEQ ID NO: 4

104 &lt;211&gt; LENGTH: 645

105 &lt;212&gt; TYPE: DNA

106 &lt;213&gt; ORGANISM: Gossypium hirsutum

108 &lt;220&gt; FEATURE:

109 &lt;221&gt; NAME/KEY: unsure

110 &lt;222&gt; LOCATION: (1)..(645)

111 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

112 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A2

114 &lt;400&gt; SEQUENCE: 4

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116 cggacgcgtg ggaataactt caatgggtgc gtgaatttaa ggaagatact taatctttca 60
118 agagccatca accttgaata cctttatigc agtgaactga aaagtttagt tgaactttgg 120
120 aatgagatg attgtgtgga ttttgttaat ttaagggaaa ttaacttcaa tgggtgcgtg 180
122 aatttaagaa agatacttaa tctttcaaga gccatcaacc tgaataacct ttattgcagt 240
124 gactgtaaaa gttaggttga actttggaat ggagatgatt gtgtggattt ttttaattta 300
126 aqggaattta acttcaatgg gtgcgtgaga ttaaggaagg actttgttaa ttaacatcc 360
128 ttgtagtaat ttaagaaaaa tagctaactt ttcaagagcc atcaaccttg aattcattga 420
130 ttgetctaatt tgtaaaagtc tggttgaact tcttgcctc gatcatttgg catctcttga 480
132 tgcgtgtaat ctccatcttg acggatgcta tagtctcaag aagttctcca ggtcccaagt 540
134 cacttttgtt atttagattt atcaaaaacc agaataгнаa atatgtcgtt gcctttcgat 600
136 cccctatgta atcttcagca cttagatatg agtggctcag cggtc 645

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139 &lt;210&gt; SEQ ID NO: 5

140 &lt;211&gt; LENGTH: 667

141 &lt;212&gt; TYPE: DNA

142 &lt;213&gt; ORGANISM: Gossypium hirsutum

144 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A3

146 &lt;400&gt; SEQUENCE: 5

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148 cggacgcgtg ggtttttttt ttgaagagaa tctttagata taataataat aagccataat 60
150 aataggtttg aaaaagaatt gcaatcaacc attacaaaqg gcaagcagct atgctaaatg 120
152 catcagatga tctacatgga caaaatcaag gcaaccaacc aaagggaaat gcaaaaaatca 180
154 caacctcttc ccaactatac tctgtatata taatttcaat aataatcaaa atcttqttta 240
156 tgtactgaca aattacacag gcaacttgc cccattttac ttttgattga agattgaacc 300
158 aaccaacca cctcatttta aagacggaaa gtagttagca aaatctcagc ggatcgtaat 360
160 tgtcatttgc agatgcacac tttgatttac taaaaggaag tagtcttcca aattgacact 420
162 accgaaaqaa ttacatttat ccaacaaatc aacaagcaaa ggtcacagat gccatttcag 480
164 tgetaacttg ttgcctcaca ttgtcatttg cttttagttc atctagaaat ccactctttt 540
166 gtgaatgttc acaaaaagga gttaaaatct aaataagctc ctattgtat atttttaacg 600

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Input Set: D:\Pa\_00349.rpt

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172 &lt;211&gt; LENGTH: 653

173 &lt;212&gt; TYPE: DNA

174 &lt;213&gt; ORGANISM: Gossypium hirsutum

176 &lt;220&gt; FEATURE:

177 &lt;221&gt; NAME/KEY: unsure

178 &lt;222&gt; LOCATION: (1)..(653)

179 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

180 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A4

182 &lt;400&gt; SEQUENCE: 6

184 gtgaggaaaa aaagettca atcttttggt gtttaagtgg tgaacacaaa aaaaaaatgg 60

186 agggcaaaaga qagggatgtt aaactaggag ccaacaaqtt ctctgagaga caacctattg 120

188 ggaatcagc tcaaacagac aaggaactaca aggaagccacc accagcacca ttgtttgagc 180

190 ctggtgagct caagtcagtg tctttctaca gagccggcat tgcctgagtt gttgctacct 240

192 tcttggttctt ttacatcaact gtcttgactg tcatgggtgt gtctcaatct aagacacaaat 300

194 gtactactgt tggatttcaa ggcattgctt gggccttttg tggcatgac ttiqcccttg 360

196 tttattgtac tgcctgcatt tcagggtggc atattaaccc agctgtgacc ttgqggttgt 420

198 tacttgcaag gaagctgtcc cttacaaggg cagtattcta catgatcatg caatgccttg 480

200 gtgctatctg tggagctggt gtagtgaaag gattcgaagg agacagtga tatgagatgt 540

Wt-&gt; 202 tggngtggtg gagccaatgt tgtgaaccat ggctacacca aagggtgatg gtcttggtgc 600

Wt-&gt; 204 tgaaatcatt gcacttttgn tcttgnctac actggtttct ctgctactga tgc 653

207 &lt;210&gt; SEQ ID NO: 7

208 &lt;211&gt; LENGTH: 638

209 &lt;212&gt; TYPE: DNA

210 &lt;213&gt; ORGANISM: Gossypium hirsutum

212 &lt;220&gt; FEATURE:

213 &lt;221&gt; NAME/KEY: unsure

214 &lt;222&gt; LOCATION: (1)..(638)

215 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

216 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A5

218 &lt;400&gt; SEQUENCE: 7

220 ctttaattggc tgcctctttg cttgttcgtc tcaatcctgc tatttctata agaatagttt 60

222 aggttttctt ttttgagtc aaactatcag tttaacttct ctatcctgc aaattctgaa 120

224 agaaaaggga tccgatctga tctgctgcaa atgggggaga agtgggtgtt gatgaaaag 180

226 gctcagacgc ctaccaacat tgcagtgatt aagtattggg ggaagaggga tgagaccctt 240

228 attttgcctg tcaacgatag cctcagcgtt actcttgatc ctgctcatct ctgcaccaca 300

230 accacgctgc ctgttagccc tcttttccag caagatccta tctggtcaa tggcaaggaa 360

232 atatcccttt ccaagaaagq gtaccagaac tttttgagga aaatcagaaa accagctagq 420

234 gaatttgaag ataaagaaag ggaataaaag atagagaaga aagatttggg gaaactgcct 480

236 ctctcatattg catcttataa caatttccct acagctgcag gatttggctt ctctgctgct 540

Wt-&gt; 238 ggtnttgctt gtcttgtttt tgcacttgca aagcttatga atgtcagtga agatgagagt 600

Wt-&gt; 240 caactttctg ctattgctag gcaagggttca ngcagtgc 638

243 &lt;210&gt; SEQ ID NO: 8

244 &lt;211&gt; LENGTH: 636

245 &lt;212&gt; TYPE: DNA

246 &lt;213&gt; ORGANISM: Gossypium hirsutum

248 &lt;220&gt; FEATURE:

249 &lt;221&gt; NAME/KEY: unsure

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252 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A6

254 &lt;400&gt; SEQUENCE: 8

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258 tctcttttcat ctccaattctt ttctgtttct ttcttttttt aaatttttat aaaatttatg   120
260 aataatattac gtttttggllc tgggttgatt taqtcagttt acttctcttt ttattttataa   180
262 tcttttttttc atcctcaatc tcttttgat ttctataaca ttatttacc ttatttttaatt   240
264 attttgaagt tatcaccttg attttcgatt acccttttgt gagattcgaa aaaaaaaacc   300
266 catttttttta ctatttttcc gatgaggaga gggagggggc tggcgcgcgc cgtcatcccc   360
268 gatggagaa g aaccccaata cagaggtgtt cggaaaaaac catggggtag attcgcagct   420
270 gagatccgag acccgtggaa aaaaaccagg gtttggttag gtactttcga ttcgcgcgaa   480
272 gaagcagctc gagcttaaga taaggcggcg atgacactgc gtggaccgaa agccaaaaag   540
274 aatttcccaa tcaatccctc gaatactanc cgctttccga tcgataacca ccaccgtcgg   600
276 ttatacctga tgggttaattt tcaagaccgc aaattg                               663

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278 &lt;210&gt; SEQ ID NO: 9

280 &lt;211&gt; LENGTH: 663

281 &lt;212&gt; TYPE: DNA

282 &lt;213&gt; ORGANISM: Gossypium hirsutum

284 &lt;220&gt; FEATURE:

285 &lt;221&gt; NAME/KEY: unsure

286 &lt;222&gt; LOCATION: (1)..(663)

287 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

288 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A7

290 &lt;400&gt; SEQUENCE: 9

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292 cccgcgctcc ggtgagnaaa tgaataatcc actaccgaca ctgtcttttcg tgtaaagctt   60
294 caacataacc attaaagggg acagagattg agagaaacta cttgtgggac ttcacccccc   120
296 cccaaaaaaa ctgttttttc tctgtctctg caataaactg gaaggagcag acacagagac   180
298 agggagagag agagagagag agagagagag agagagagag agagagaggt gtgggggaga   240
300 caatatggtt aagttaataa aaggataaga ttgatccat ctctcttatg ttttcttttt   300
302 tctttgtata aaqtcacaaa gaagcaqatt caagatatt gagaagaagt ttctaaagat   360
304 ttgttaagc tagctatggg aactcttgca atcgatacgg agtqtgtgga ttctgatata   420
306 taccgtgctt tgggattcaa agaattgggt aaaggagttg ttggaactcc acgqatttta   480
308 tcactcttt ctgccttctt tgaagaaatc qtcraaaqaa acgaatgga qtcgagacg   540
310 gtgaacttca aanataatgt tgccatgttt catgggttaa gagctccacc ataagcattc   600
312 agcatatat cgatecgate ttcaagtatg ctggctgcag tccgtcgtgt tttctcgttg   660
314 cat                               663

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316 &lt;210&gt; SEQ ID NO: 10

318 &lt;211&gt; LENGTH: 200

319 &lt;212&gt; TYPE: DNA

320 &lt;213&gt; ORGANISM: Gossypium hirsutum

322 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A8

324 &lt;400&gt; SEQUENCE: 10

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326 tccatatact tgaatggttt atctcaatgg tcatgctaatt actttttgtt gtactcttcc   60
328 tctagqattc ttctttttct tgaactccat tctcaaaaag cttgtaccaa gttgtaatgc   120
330 caqatattaat gtatgcaata aaaactatat gtatggtaaa gtatgtattt ttattttttg   180
332 cttaacttca tgggttggcc
334 <210> SEQ ID NO: 11
336 <211> LENGTH: 585

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340 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-B1

342 &lt;400&gt; SEQUENCE: 11

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344 gggaaacta teqcttcga gttcacaaag tgggaatata gacctccttg aatttcagga    60
346 ttcaagaca taatttactt cttgoggaga gtgagggata atatacggtg cagcagaact   120
348 aaactagctt agacatacat gtagggcagt catattcggt tctgctaacc acggatacga   180
350 atgcaagtag cgaattactac attgtagcaa gtgccaggtt tgtgaatgaa tgcagtgga   240
352 aacgqttac cgtgtttgcc attttgcgtt attctaattc gaaaggaag qeatccggtc   300
354 ccttcctga tccaccgcag gatgaattcg acaaaacctt ttcaatgaac caagetagat   360
356 ctatcagatg gaatttatct gccagtggtg ctgcgccgaa cccacagga tcgttttagat   420
358 atggttcgat taattgtact gaagtttacg tcttgagaaa caaacacca gagactattg   480
360 atgggaiaag acgagcgaca ctgagtgga tatctttgt caatcttget acaccaatcc   540
362 pttttgttga ccagtataag attaaaggag tatataagct tga                    583

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365 &lt;210&gt; SEQ ID NO: 12

366 &lt;211&gt; LENGTH: 672

367 &lt;212&gt; TYPE: DNA

368 &lt;213&gt; ORGANISM: Gossypium hirsutum

370 &lt;220&gt; FEATURE:

371 &lt;221&gt; NAME/KEY: unsure

372 &lt;222&gt; LOCATION: (1)..(672)

373 &lt;223&gt; OTHER INFORMATION: unsure at all n locations

374 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-B10

376 &lt;400&gt; SEQUENCE: 12

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378 tcaagcttca gcagaaggaa atattcggtt aaaaggagag attctgaagg agagagtagt    60
380 tcttcacact ggggaagaa gttgagtggt tcatctccgg agggactgaa caatagttct   120
382 agcctcagtg attctatttc tgattcaagg cgagccagaa attggtcttc taatagggat   180
384 tgtgttattg cttcttcagt taggaactcag aqatcaaaca gtagttaatg tagtgggaga   240
386 ctccctaac ccagcaaatgg aaatagttta acittgaatg agtcacccat ggtcacccca   300
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390 tcaactcgta ctagtcttta cagtcgatca qgtagtatag atgagagttt acgaggtttc   420
392 atgccttcca gtccttcaga agttagtggt taccactctt cagtgaacca gggtagcttc   480
394 cagcactaca atatgqatgg ctttgccagag gtattattag aacttgagag aattgaacaa   540
396 atgaaagact tgaacataca gcaattactt attctagaga ccagcttget ccttaattgc   600
398 ctggactttt atgaatcgca tagagatatg agattggata tagatgatat gtcatatnga   660
400 gaattactag ct                    672

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403 &lt;210&gt; SEQ ID NO: 13

404 &lt;211&gt; LENGTH: 260

405 &lt;212&gt; TYPE: DNA

406 &lt;213&gt; ORGANISM: Gossypium hirsutum

408 &lt;223&gt; OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-B11

410 &lt;400&gt; SEQUENCE: 13

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412 atgtgactct ctttcttttg ctttcttttc caggtccttt acittttgaa tctcagatca    60
414 ggaattatc aaatccgagc cggcatggaq gttaacgaca agcttttgaa cagcggatatt   120
416 ctatataqta ccacctagat agtggccaaq ctatatactt tctcataat gcttaqatct   180
418 aagaaacggg ttccaccagc agtcaaaacc tggccggtaa tcggtgqgct ccttcgatca   240
420 tgaagagcct atcgtgatgc                    260

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423 &lt;210&gt; SEQ ID NO: 14

424 &lt;211&gt; LENGTH: 653

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/849,529

DATE: 07/24/2001

TIME: 15:36:41

Input Set : D:\Pa\_00349.rpt

Output Set N:\CRF3\07242001\I849529.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6  
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 6  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7  
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 7  
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 8  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 9  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 9  
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 12  
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 14  
L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 15  
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 15  
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 17  
L:622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 19  
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 24  
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L:948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 29  
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L:1402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 42  
L:1494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 42  
L:1420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 43  
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L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 46  
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L:1736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 54  
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 56  
L:1894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 57  
L:1896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 57  
L:1964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 59  
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 60  
L:2006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 60  
L:2036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 62

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/849,529

DATE: 07/24/2001

TIME: 15:36:41

Input Set : D:\Pa\_00349.rpt

Output Set: N:\CRF3\07242001\I849529.raw

L:2106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63  
L:2138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64  
L:2140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64  
L:2162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65

Volume in drive D:\ is 010504\_0932  
Directory of D:\

pa\_00349.rpt

19461 KB 5 4 11

1 file(s)  
Total filesize 19461 KB  
0 kilobytes free